

CLAIMS

1. A receiving element (1) for receiving a biological specimen detached from a biological mass (7) by means
5 of laser radiation,
the receiving element (1) comprising a receiving surface for receiving the specimen,
the receiving surface comprising an adhesive agent (4) for enhancing the adhesion of the respective specimen
10 to the receiving surface,
characterised in that
the adhesive agent (4) may be dissolved without impairing the suitability of the specimen for predetermined processing and/or analysis.
15
2. A receiving element (1) according to claim 1,
characterised in that,
for dissolution, the adhesive agent (4) is liquefiable by input of heat.
20
3. A receiving element (1) according to claim 1 or claim 2,
characterised in that
the adhesive agent (4) may be dissolved without
25 damaging the specimen.
4. A receiving element (1) according to any one of the preceding claims,
characterised in that
30 the adhesive agent (4) comprises agents for carrying out the predetermined processing and/or analysis.

5. A receiving element (1) according to any one of the preceding claims,
characterised in that
the adhesive agent (4) is so designed that, after
5 dissolution, it does not influence the predetermined processing and/or analysis.
6. A receiving element (1) for receiving a biological specimen detached from a biological mass (7) by means
10 of laser radiation,
the receiving element (1) comprising a receiving surface for receiving the specimen,
the receiving surface comprising an adhesive agent (4) for enhancing the adhesion of the respective specimen
15 to the receiving surface,
characterised in that
the adhesive agent (4) is so designed that it suppresses the occurrence of electrostatic forces,
acting on the specimen, in the receiving element (1).
20
7. A receiving element (1) for receiving a biological specimen detached from a biological mass (7) by means
of laser radiation,
the receiving element (1) comprising a receiving
25 surface for receiving the specimen,
the receiving surface comprising an adhesive agent (4) for enhancing the adhesion of the respective specimen to the receiving surface,
characterised in that
30 the adhesive agent (4) is so designed that it may receive agents for further processing and/or analysis of the specimen.

8. A receiving element (1) for receiving a biological specimen detached from a biological mass (7) by means of laser radiation,
the receiving element (1) comprising a receiving
5 surface for receiving the specimen,
the receiving surface comprising an adhesive agent (4) for enhancing the adhesion of the respective specimen to the receiving surface,
characterised in that
10 the adhesive agent is a hydrogel (4).
9. A receiving element (1) according to claim 7,
characterised in that
the hydrogel (4) is so designed that it suppresses the
15 occurrence of electrostatic forces, acting on the specimen, in the receiving element (1).
10. A receiving element (1) according to claim 8 or claim 9,
20 **characterised in that**
the hydrogel (4) may be dissolved without damaging the specimen.
11. A receiving element (1) according to claim 10,
25 **characterised in that**
the hydrogel (4) may be dissolved by addition of an enzyme.
12. A receiving element (1) according to claim 10 or claim 11,
30 **characterised in that,**
for dissolution, the hydrogel (4) is liquefiable by input of heat.

13. A receiving element (1) according to any one of claims
8 to 12,
characterised in that
the hydrogel (4) is so designed that it may receive
agents for further processing and/or analysis of the
specimen.
14. A receiving element according to claim 13,
characterised in that
the agents for further processing and/or analysis of
the specimen are incorporated in the hydrogel (4).
15. A receiving element according to claim 14,
characterised in that
the agents for further processing of the specimen
comprise buffer agents, a cell culture medium and/or
an enzyme prebatch.
16. A receiving element (1) according to any one of claims
8 to 15,
characterised in that
the hydrogel (4) comprises agarose.
17. A receiving element (1) according to claim 16,
characterised in that
the hydrogel consists of pure agarose.
18. A receiving element (1) according to any one of claims
8 to 15,
characterised in that
the hydrogel (4) comprises a hydrogel based on
proteinogenic substances, collagen, a sugar-based
network former and/or polyacrylamide.

19. A receiving element (1) according to any one of claims
1 to 18,
characterised in that
the receiving element (1) comprises a lid portion (2)
5 for covering a container (5) and a supporting element
(3) fitted in the lid portion (2), said supporting
element (3) having the receiving surface on a side
remote from the lid portion (2).
- 10 20. A receiving element (1) according to claim 19,
characterised in that
the supporting element (3) is made of silicone or
acrylic polymer.
- 15 21. A receiving element (1) according to claim 19 or
claim 20,
characterised in that
the supporting element (3) exhibits a height which is
so selected that the distance between the hydrogel (4)
20 and a base (5a) of the container (5) is less than
10 mm when the lid portion (2) is covering the
container (5).
22. A receiving element (1) according to any one of claims
25 19 to 21,
characterised in that
the supporting element (3) is fitted removably on the
lid portion (2).
- 30 23. A receiving element (1) according to any one of claims
1 to 18,
characterised in that
the receiving element takes the form of a multiple
culture dish (1).

24. A receiving element (1) according to any one of claims
1 to 18,
characterised in that
5 the receiving element takes the form of a microtitre
plate.
25. A receiving element (1) according to any one of the
preceding claims,
10 **characterised in that**
receiving wells (20) of the receiving element (1) are
filled to a predetermined level with the adhesive
agent (4).
- 15 26. A receiving element (1) according to any one of claims
7 to 25,
characterised in that
the receiving element is designed according to any one
of claims 1 to 6.
20
27. Use of a receiving element (1) according to any one of
claims 1 to 26 for collecting a biological specimen
which has been detached from a biological mass using a
laser beam.
25
28. Use according to claim 27,
characterised in that
detachment of the specimen from the biological mass
(7) is effected by a laser-triggered transportation
30 process.
29. A method of recovering a biological specimen,
characterised in that

the specimen is detached with a laser from a
biological mass (7) and transported to a receiving
element (1),

5 the specimen is received on a receiving surface of the
receiving element (1) according to any one of claims 1
to 25, and

the adhesive agent (4) of the receiving element (1) is
dissolved.

10 30. A method according to claim 29,

characterised in that,

when the adhesive agent (4) is dissolved, agents
incorporated in the adhesive agent for further
processing and/or analysis of the biological specimens
15 are liberated.